Location			Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				
SHEROYGAN TO DT WASHINGT	FON WI COUNTY 1.4 E SHEBOYGAN [43.75, -8'	7 601		
SHEDOTOAN TOT I WASHINGT	07/14/10 23:50 CST	=	0	Marine Thunderstorm Wind (MG 45 kt)
	07/14/10 23:50 CST		0	Source: C-MAN Station
PT WASHINGTON TO NORTH PT	T LT WI COUNTY 0.6 N PORT WASHINGTON [4	43.39, -87.87]		
	07/15/10 00:02 CST		0	Marine Thunderstorm Wind (MG 38 kt)
	07/15/10 00:02 CST		0	Source: C-MAN Station
WIND PT LT WI TO WINTHROP H	HBR IL COUNTY 1.2 ENE KENOSHA [42.59, -87	7.81]		
	07/15/10 01:10 CST		0	Marine Thunderstorm Wind (MG 46 kt)
	07/15/10 01:20 CST		0	Source: C-MAN Station
Frequent wind gusts 37 to 46 known	ots in the 10 minute period.			
Line of strong to severe thunder	rstorms swept across eastern Wisconsin and the	nearshore wate	rs of Lake Mic	higan.
WIND PT LT WI TO WINTHROP H	HBR IL COUNTY 1.2 ENE KENOSHA [42.59, -87	7.81]		
	07/15/10 11:10 CST	-	0	Marine Thunderstorm Wind (MG 38 kt)
	07/15/10 11:20 CST		0	Source: C-MAN Station
Frequent gusts to 38 knots in the	10 minute period.			
A. :			D. :4	
An isolated strong thunderstorm	n affected the nearshore waters of Lake Michigan	1 South of Wind I	Point.	
SHEBOYGAN TO PT WASHINGT	FON WI COUNTY 1.4 E SHEBOYGAN [43.75, -8'	7.69]		
	07/15/10 20:10 CST		0	Marine Thunderstorm Wind (MG 41 kt)
	07/15/10 20:10 CST		0	Source: C-MAN Station
A line of thunderstorms affected	d the Lake Michigan nearshore waters producing	damaging wind	gusts.	
WIND PT LT WI TO WINTHROP H	HBR IL COUNTY 1.2 ENE KENOSHA [42.59, -87	7.811		
	07/22/10 20:40 CST	=	0	Marine Thunderstorm Wind (MG 48 kt)
	07/22/10 21:00 CST		0	Source: C-MAN Station
Frequent wind gusts from 38 knot	ts to 48 knots during the 20 minute period.			
Numerous strong to severe thun	nderstorms affected the nearshore waters of Lake	e Michigan.		
WISCONSIN, Southeast				
COLUMBIA COUNTY 3.0 SW	CAMBRIA [43.52, -89.14], 2.1 ESE CAMBRIA [43.5			
	07/07/10 17:27 CST		0.10M	Tornado (EF1, L: 4.23 mi , W: 125 yd)
	07/07/10 17:41 CST		5K	Source: NWS Storm Survey
moved east-northeast to around 2 farm where it collapsed the walls and Additionally, 15 acres of corn and width was 40 yards. The EF1 estimates	2.5 miles southwest of Cambria, about 0.25 miles 2.1 miles east-southeast of Cambria, ending near F of a barn, ripped the fabric off of a shed, moved a f I 5 acres of wheat were flattened, and numerous tre imated wind speed of 90 to 95 mph was based on I	Fordeg Road just fertilizer spreader ees were uproote	north of Ceme 300 to 400 fee d or had brand	tery Road. The tornado moved across a et and pushed a shed door 6 inches. hes snapped off. The average path
-89.14369. The exact end location	II IS Lat 43.93/32 LON -89.062/4.			
COLUMBIA COUNTY 2.5 SW (CAMBRIA [43.52, -89.14]			

07/07/10 17:30 CST

07/07/10 17:30 CST

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Hail (1.25 in)

Source: Public

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Lakes region by the southern end omixed layer CAPE values of 1000 J	rstorms developed ahead of a surface co of an upper tough. The front moved into I/kg to 1500 J/kg. Though overall wind sh umbia County to become tornadic.	a moist, unstable	air mass over sou	thern Wisconsin, with
DODGE COUNTY 3.0 W WAUPU	N [43.63, -88.79]			
	07/10/10 16:00 CST		0	Thunderstorm Wind (EG 50 kt)
	07/10/10 16:00 CST		0	Source: Law Enforcement
Law enforcement reported power line	les down on the Dodge County side of Cou	unty Highway AW d	lue to thunderstorm	n wind gusts.
WAUKESHA COUNTY MUSKEG	O [42.90, -88.13] 07/10/10 18:01 CST		0	Hail (0.75 in)
	07/10/10 18:01 CST		0	Source: Law Enforcement
The Muskego Police Department rep	ported 3/4 inch hail fell in the city.			
3000J/kg, to produce scattered stro	tral Wisconsin combined with a moist un ong to severe thunderstorms over portio meter were produced by the thunderstor	ns of Southeast W		
FOND DU LAC COUNTY 3.0 S RO	- · · · -		•	Formal Oland
	07/11/10 15:20 CST 07/11/10 15:20 CST		0	Funnel Cloud Source: Trained Spotter
	07/11/10 15.20 CS1		U	Source. Trained Spotter
A trained spotter reported a funnel cl	cloud descending from a rotating wall cloud	3 miles south of R	losendale.	
GREEN COUNTY 7.0 SW BRODH				
GREEN COUNTY 7.0 SW BRODE	07/12/10 16:13 CST		0	Funnel Cloud
GREEN COUNTY 7.0 SW BRODH			0	Funnel Cloud Source: Trained Spotter
	07/12/10 16:13 CST	ad.	-	
A trained spotter reported a rotating	07/12/10 16:13 CST 07/12/10 16:13 CST		0	Source: Trained Spotter
A trained spotter reported a rotating	07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour		0	Source: Trained Spotter
A trained spotter reported a rotating Funnel clouds and rotating wall clo	07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour		0	Source: Trained Spotter
A trained spotter reported a rotating Funnel clouds and rotating wall clo	07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour		0 ad in Green County	Source: Trained Spotter y on July 12th.
A trained spotter reported a rotating Funnel clouds and rotating wall clo (WI-Z062) IOWA, (WI-Z067) LAFAYE	07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour ETTE, (WI-Z068) GREEN 07/11/10 22:00 CST	nty on July 11th an	0 od in Green County 0 0	Source: Trained Spotter y on July 12th. Dense Fog ce dense fog over
A trained spotter reported a rotating Funnel clouds and rotating wall clo (WI-Z062) IOWA, (WI-Z067) LAFAYE Clearing skies and moist air due to portions of South Central Wiscons	07/12/10 16:13 CST 07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour ETTE, (WI-Z068) GREEN 07/11/10 22:00 CST 07/12/10 07:00 CST o recent rains, combined with light winds sin. Visibilities were reduced to 1/4 mile of	nty on July 11th an	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Source: Trained Spotter y on July 12th. Dense Fog ce dense fog over am CDT on July 12th.
A trained spotter reported a rotating Funnel clouds and rotating wall clo (WI-Z062) IOWA, (WI-Z067) LAFAYE	07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour ETTE, (WI-Z068) GREEN 07/11/10 22:00 CST 07/12/10 07:00 CST orecent rains, combined with light winds sin. Visibilities were reduced to 1/4 mile of	nty on July 11th an	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Source: Trained Spotter y on July 12th. Dense Fog ce dense fog over
A trained spotter reported a rotating Funnel clouds and rotating wall clo (WI-Z062) IOWA, (WI-Z067) LAFAYE Clearing skies and moist air due to portions of South Central Wiscons (WI-Z072) KENOSHA A combination of clear skies, light	07/12/10 16:13 CST 07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour ETTE, (WI-Z068) GREEN 07/11/10 22:00 CST 07/12/10 07:00 CST o recent rains, combined with light winds sin. Visibilities were reduced to 1/4 mile of	and cooling tempor less from around	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Source: Trained Spotter y on July 12th. Dense Fog ce dense fog over am CDT on July 12th. Dense Fog ha County, beginning
A trained spotter reported a rotating Funnel clouds and rotating wall clo (WI-Z062) IOWA, (WI-Z067) LAFAYE Clearing skies and moist air due to portions of South Central Wiscons (WI-Z072) KENOSHA A combination of clear skies, light during the late night hours of July	07/12/10 16:13 CST 07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher puds were reported in Fond Du Lac Cour ETTE, (WI-Z068) GREEN 07/11/10 22:00 CST 07/12/10 07:00 CST orecent rains, combined with light winds sin. Visibilities were reduced to 1/4 mile of 07/13/10 22:00 CST 07/14/10 04:00 CST	and cooling tempor less from around	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 see fog over Kenosi	Source: Trained Spotter y on July 12th. Dense Fog ce dense fog over am CDT on July 12th. Dense Fog ha County, beginning educed to 1/4 mile or less.
A trained spotter reported a rotating Funnel clouds and rotating wall clo (WI-Z062) IOWA, (WI-Z067) LAFAYE Clearing skies and moist air due to portions of South Central Wiscons (WI-Z072) KENOSHA A combination of clear skies, light during the late night hours of July	07/12/10 16:13 CST 07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher buds were reported in Fond Du Lac Cour ETTE, (WI-Z068) GREEN 07/11/10 22:00 CST 07/12/10 07:00 CST orecent rains, combined with light winds sin. Visibilities were reduced to 1/4 mile of 07/13/10 22:00 CST 07/14/10 04:00 CST winds and abundant near-ground moists 13th and lasting into the early morning is	and cooling tempor less from around	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 see fog over Kenosi	Source: Trained Spotter y on July 12th. Dense Fog ce dense fog over am CDT on July 12th. Dense Fog ha County, beginning educed to 1/4 mile or less.
A trained spotter reported a rotating Funnel clouds and rotating wall clo (WI-Z062) IOWA, (WI-Z067) LAFAYE Clearing skies and moist air due to portions of South Central Wiscons (WI-Z072) KENOSHA A combination of clear skies, light during the late night hours of July (WI-Z062) IOWA, (WI-Z063) DANE, (07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour ETTE, (WI-Z068) GREEN 07/11/10 22:00 CST 07/12/10 07:00 CST 0 recent rains, combined with light winds sin. Visibilities were reduced to 1/4 mile of 07/14/10 04:00 CST winds and abundant near-ground moists 13th and lasting into the early morning in (WI-Z064) JEFFERSON, (WI-Z067) LAFAN 07/14/10 16:00 CST 07/14/10 16:00 CST	and cooling tempor less from around	o o o o o o o o o o o o o o o o o o o	Source: Trained Spotter y on July 12th. Dense Fog ce dense fog over am CDT on July 12th. Dense Fog ha County, beginning educed to 1/4 mile or less. ROCK Heat
A trained spotter reported a rotating Funnel clouds and rotating wall clo (WI-Z062) IOWA, (WI-Z067) LAFAYE Clearing skies and moist air due to portions of South Central Wiscons (WI-Z072) KENOSHA A combination of clear skies, light during the late night hours of July (WI-Z062) IOWA, (WI-Z063) DANE, (A warm front lifted into far souther points in the 70s produced heat inc	07/12/10 16:13 CST 07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour ETTE, (WI-Z068) GREEN 07/11/10 07:00 CST 07/12/10 07:00 CST 07/12/10 07:00 CST 07/13/10 22:00 CST 07/13/10 22:00 CST 07/14/10 04:00 CST winds and abundant near-ground moists 13th and lasting into the early morning in (WI-Z064) JEFFERSON, (WI-Z067) LAFAN 07/14/10 16:00 CST 07/14/10 16:00 CST rn Wisconsin, bringing a hot and humid addex values between 100 and 104.	and cooling tempor less from around	o o o o o o o o o o o o o o o o o o o	Source: Trained Spotter y on July 12th. Dense Fog ce dense fog over am CDT on July 12th. Dense Fog ha County, beginning educed to 1/4 mile or less. ROCK Heat
A trained spotter reported a rotating Funnel clouds and rotating wall clo (WI-Z062) IOWA, (WI-Z067) LAFAYE Clearing skies and moist air due to portions of South Central Wiscons (WI-Z072) KENOSHA A combination of clear skies, light during the late night hours of July (WI-Z062) IOWA, (WI-Z063) DANE, (A warm front lifted into far souther	07/12/10 16:13 CST 07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour ETTE, (WI-Z068) GREEN 07/11/10 22:00 CST 07/12/10 07:00 CST O recent rains, combined with light winds sin. Visibilities were reduced to 1/4 mile of 07/13/10 22:00 CST 07/14/10 04:00 CST winds and abundant near-ground moists 13th and lasting into the early morning in 13th and lasting into the early morning in 16:00 CST 07/14/10 16:00 CST 07/14/10 16:00 CST 07/14/10 16:00 CST orn Wisconsin, bringing a hot and humid a dex values between 100 and 104.	and cooling tempor less from around	od in Green County 0 0 0 eratures to product midnight to 830 a 0 0 0 See fog over Kenos Visibilities were r GREEN, (WI-Z069) 0 0	Source: Trained Spotter y on July 12th. Dense Fog ce dense fog over am CDT on July 12th. Dense Fog tha County, beginning educed to 1/4 mile or less. ROCK Heat tes in the 90s and dew
A trained spotter reported a rotating Funnel clouds and rotating wall clo (WI-Z062) IOWA, (WI-Z067) LAFAYE Clearing skies and moist air due to portions of South Central Wiscons (WI-Z072) KENOSHA A combination of clear skies, light during the late night hours of July (WI-Z062) IOWA, (WI-Z063) DANE, (A warm front lifted into far souther points in the 70s produced heat inc	07/12/10 16:13 CST 07/12/10 16:13 CST 07/12/10 16:13 CST funnel cloud 7 miles southwest of Brodher ouds were reported in Fond Du Lac Cour ETTE, (WI-Z068) GREEN 07/11/10 07:00 CST 07/12/10 07:00 CST 07/12/10 07:00 CST 07/13/10 22:00 CST 07/13/10 22:00 CST 07/14/10 04:00 CST winds and abundant near-ground moists 13th and lasting into the early morning in (WI-Z064) JEFFERSON, (WI-Z067) LAFAN 07/14/10 16:00 CST 07/14/10 16:00 CST rn Wisconsin, bringing a hot and humid addex values between 100 and 104.	and cooling tempor less from around	o o o o o o o o o o o o o o o o o o o	Source: Trained Spotter y on July 12th. Dense Fog ce dense fog over am CDT on July 12th. Dense Fog ha County, beginning educed to 1/4 mile or less. ROCK Heat

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SAUK COUNTY 2.0 NW LAKE DEL				
	07/14/10 18:33 CST		0	Thunderstorm Wind (EG 50 kt)
	07/14/10 18:33 CST		0	Source: Public
he public reported a thunderstorm wir	nd gust estimates at 50 knots (58 mph).			
OODGE COUNTY 2.0 NW FOX LAK				
	07/14/10 19:05 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 19:05 CST		0	Source: Public
he public reported a thunderstorm wir	nd gust estimated at 60 mph (52 knots).			
SHEBOYGAN COUNTY 5.0 W CAS	CADE [43.67, -88.10]			
	07/14/10 19:42 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 19:42 CST		0	Source: Public
he public reported trees blown down l	by thunderstorm wind gusts estimated at	52 knots (60 mph).	
VASHINGTON COUNTY HARTFOR	RD [43.32, -88.38]			
	07/14/10 19:53 CST		10K	Thunderstorm Wind (EG 52 kt)
	07/14/10 19:53 CST		0	Source: Emergency Manager
ne emergency manager or wasningto ocations in the county.	on County reported trees and power lines	s blown down by tr	nunderstorm wind	gusts in Harttord and a few other
•	DELLS [43.63, -89.77], PORTAGE [43.55	5, -89.45]		
•	DELLS [43.63, -89.77], PORTAGE [43.55 07/14/10 22:00 CST	5, -89.45]	20K	Thunderstorm Wind (EG 61 kt)
COLUMBIA COUNTY WISCONSIN			0	Source: Trained Spotter
COLUMBIA COUNTY WISCONSIN OF A trained spotter reported trees and populs to Portage.	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm w		0	Source: Trained Spotter
COLUMBIA COUNTY WISCONSIN OF A trained spotter reported trees and populs to Portage.	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm w		0 ed at 70 mph (61	Source: Trained Spotter knots) along a path from the Wisconsin
COLUMBIA COUNTY WISCONSIN A trained spotter reported trees and populs to Portage. MARQUETTE COUNTY 2.5 NNE BE	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm was registered by the company of th	vind gusts estimate	0 ed at 70 mph (61 0 0	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt)
A trained spotter reported trees and po Dells to Portage. MARQUETTE COUNTY 2.5 NNE BR	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm was respectively a serious properties of the control of the cont	vind gusts estimate	0 ed at 70 mph (61 0 0 0	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt) Source: Fire Department/Rescue
A trained spotter reported trees and po Dells to Portage. MARQUETTE COUNTY 2.5 NNE BR	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm was read to be a second of the control of the con	vind gusts estimate	0 ed at 70 mph (61 0 0 h).	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt) Source: Fire Department/Rescue Thunderstorm Wind (EG 56 kt)
A trained spotter reported trees and po Dells to Portage. MARQUETTE COUNTY 2.5 NNE BR	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm was respectively a serious properties of the control of the cont	vind gusts estimate	0 ed at 70 mph (61 0 0 0	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt) Source: Fire Department/Rescue
A trained spotter reported trees and po Dells to Portage. MARQUETTE COUNTY 2.5 NNE BR	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm was read to be a second of the control of the con	vind gusts estimate	0 ed at 70 mph (61 0 0 h).	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt) Source: Fire Department/Rescue Thunderstorm Wind (EG 56 kt) Source: Law Enforcement
A trained spotter reported trees and po Dells to Portage. MARQUETTE COUNTY 2.5 NNE BR Fire department personnel reported the COLUMBIA COUNTY 10.0 W COLU Law enforcement personnel reported tr	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm was respectively a compared to the compared to th	vind gusts estimated at	0 ed at 70 mph (61 0 0 h). 0 0 56 knots (65 mp	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt) Source: Fire Department/Rescue Thunderstorm Wind (EG 56 kt) Source: Law Enforcement h).
A trained spotter reported trees and po Dells to Portage. MARQUETTE COUNTY 2.5 NNE BR Fire department personnel reported the COLUMBIA COUNTY 10.0 W COLU Law enforcement personnel reported tr	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm was riggsville [43.68, -89.56] 07/14/10 22:02 CST 07/14/10 22:02 CST understorm wind gusts up to an estimated state of the	vind gusts estimated at	0 ed at 70 mph (61 0 0) 0 h). 0 0 56 knots (65 mp	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt) Source: Fire Department/Rescue Thunderstorm Wind (EG 56 kt) Source: Law Enforcement h).
A trained spotter reported trees and poolells to Portage. MARQUETTE COUNTY 2.5 NNE BR Fire department personnel reported the COLUMBIA COUNTY 10.0 W COLU aw enforcement personnel reported to	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm was regressional properties of the properti	vind gusts estimated at	0 ed at 70 mph (61 0 0 0 h). 0 0 56 knots (65 mp	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt) Source: Fire Department/Rescue Thunderstorm Wind (EG 56 kt) Source: Law Enforcement h). 15, -89.70], 2.0 SW ROCK SPGS [43.46, Flash Flood (due to Heavy Rain)
A trained spotter reported trees and poolells to Portage. MARQUETTE COUNTY 2.5 NNE BR Fire department personnel reported the COLUMBIA COUNTY 10.0 W COLU Law enforcement personnel reported trees BAUK COUNTY 2.0 N ROCK SPGS 89.95] The Sauk County Emergency Manager Operations in Rock Springs along the result of heavy rains from strong to	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm was riggesville [43.68, -89.56] 07/14/10 22:02 CST 07/14/10 22:02 CST understorm wind gusts up to an estimated standard of the st	vind gusts estimated at 9, -89.70], 2.0 SE some roads, main ofter reported street. A farmer near l	0 ed at 70 mph (61 0 0 0 h). 0 56 knots (65 mp BARABOO [43.4 30K 10K hly in the northerset flooding along along along a Valle lost 30 h	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt) Source: Fire Department/Rescue Thunderstorm Wind (EG 56 kt) Source: Law Enforcement h). 15, -89.70], 2.0 SW ROCK SPGS [43.46, Flash Flood (due to Heavy Rain) Source: Emergency Manager n portion of the countywith sandbagging Highway 33 in Baraboo. The flooding was
A trained spotter reported trees and ported to Portage. MARQUETTE COUNTY 2.5 NNE BEFORE THE DESTRUCTION OF THE PROPERTY 10.0 W COLUMBIA COUNTY 10.0 W COLUMBIA COUNTY 10.0 W COLUMBIA COUNTY 2.0 N ROCK SPGS -89.95] The Sauk County Emergency Manager operations in Rock Springs along the result of heavy rains from strong to left high ground into the rushing waters	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm with the state of t	vind gusts estimated at 9, -89.70], 2.0 SE some roads, main ofter reported street. A farmer near l	0 ed at 70 mph (61 0 0 0 h). 0 56 knots (65 mp BARABOO [43.4 30K 10K hly in the northerset flooding along along along a Valle lost 30 h	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt) Source: Fire Department/Rescue Thunderstorm Wind (EG 56 kt) Source: Law Enforcement h). 15, -89.70], 2.0 SW ROCK SPGS [43.46, Flash Flood (due to Heavy Rain) Source: Emergency Manager n portion of the countywith sandbagging Highway 33 in Baraboo. The flooding was
A trained spotter reported trees and poolells to Portage. MARQUETTE COUNTY 2.5 NNE BR Fire department personnel reported the COLUMBIA COUNTY 10.0 W COLU Law enforcement personnel reported trees BAUK COUNTY 2.0 N ROCK SPGS 89.95] The Sauk County Emergency Manager Operations in Rock Springs along the result of heavy rains from strong to	07/14/10 22:00 CST 07/14/10 22:18 CST ower lines blown down by thunderstorm with the state of t	vind gusts estimated at 9, -89.70], 2.0 SE some roads, main ofter reported street. A farmer near l	0 ed at 70 mph (61 0 0 0 h). 0 56 knots (65 mp BARABOO [43.4 30K 10K hly in the northerset flooding along along along a Valle lost 30 h	Source: Trained Spotter knots) along a path from the Wisconsin Thunderstorm Wind (EG 52 kt) Source: Fire Department/Rescue Thunderstorm Wind (EG 56 kt) Source: Law Enforcement h). 15, -89.70], 2.0 SW ROCK SPGS [43.46, Flash Flood (due to Heavy Rain) Source: Emergency Manager n portion of the countywith sandbagging Highway 33 in Baraboo. The flooding was

DODGE COUNTY --- 1.0 NE BEAVER DAM [43.48, -88.82]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/14/10 22:58 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 22:58 CST		0	Source: Trained Spotter
trained spotter estimated thunderstorm wind	gusts up to 52 knots (60 mph).			
SAUK COUNTY 7.0 W LA VALLE [43.58, -	-			
	07/14/10 23:00 CST		0	Thunderstorm Wind (EG 56 kt)
	07/14/10 23:00 CST		0	Source: Public
The public reported trees blown down by thun	derstorm wind gusts estimated u	p to 56 knots (70 r	nph).	
WASHINGTON COUNTY 3.4 SW WEST BE	• •			
	07/14/10 23:20 CST		20K	Lightning
	07/14/10 23:30 CST		0	Source: Fire Department/Rescue
The West Bend Fire Department responded to near the intersection of CTH NN and Scenic R		o lightning strikes a	and power line dam	nage due to lightning strikes, including
DODGE COUNTY MAYVILLE [43.50, -88.5	07/14/10 23:22 CST		11/	Thunderstorm Wind (FC 65 lt)
			1K	Thunderstorm Wind (EG 65 kt)
	07/14/10 23:22 CST		0	Source: Law Enforcement
Law enforcement reported a power pole snap	ped by strong thunderstorm wind	gusts estimated u	p to 65 knots (75 n	mph).
SHEBOYGAN COUNTY 2.0 W GREENBUS	NU 142 70 00 421			
SHEBUTGAN COUNTT 2.0 W GREENBUS				
SHEBOTGAN COUNTY 2.0 W GREENBUS	07/14/10 23:30 CST		0	Thunderstorm Wind (EG 52 kt)
SHEBUTGAN COUNTT 2.0 W GREENBUS			0	Thunderstorm Wind (EG 52 kt) Source: Law Enforcement
_aw enforcement officials reported trees blow	07/14/10 23:30 CST 07/14/10 23:30 CST n down by thunderstorm wind gu	sts estimated up to	0	Source: Law Enforcement
Law enforcement officials reported trees blow	07/14/10 23:30 CST 07/14/10 23:30 CST n down by thunderstorm wind gu	sts estimated up to	0	Source: Law Enforcement
Law enforcement officials reported trees blow	07/14/10 23:30 CST 07/14/10 23:30 CST in down by thunderstorm wind gu 43.40, -88.28]	sts estimated up to	0 0 52 knots (60 mph	Source: Law Enforcement
Law enforcement officials reported trees blown WASHINGTON COUNTY 5.0 N SLINGER [-	07/14/10 23:30 CST 07/14/10 23:30 CST in down by thunderstorm wind gu 43.40, -88.28] 07/14/10 23:40 CST 07/14/10 23:40 CST		0 0 52 knots (60 mph 0 0	Source: Law Enforcement Thunderstorm Wind (EG 52 kt) Source: Law Enforcement
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Law enforcement officials reported trees blown WASHINGTON COUNTY 5.0 N SLINGER [Law enforcement officials reported trees blown WAUKESHA COUNTY 2.0 NE LANNON [4: The public reported trees blown down by thun	07/14/10 23:30 CST 07/14/10 23:30 CST n down by thunderstorm wind gu 43.40, -88.28] 07/14/10 23:40 CST 07/14/10 23:40 CST n down by thunderstorm wind gu 3.17, -88.14] 07/14/10 23:55 CST 07/14/10 23:55 CST derstorm wind gusts estimated u 43.35, -87.97]	sts estimated up to	0 0 52 knots (60 mph 0 0 0 52 knots (60 mph 0 0 52 knots (60 mph 0 0 nph).	Source: Law Enforcement Thunderstorm Wind (EG 52 kt) Source: Law Enforcement Thunderstorm Wind (EG 52 kt) Source: Public
Law enforcement officials reported trees blown WASHINGTON COUNTY 5.0 N SLINGER [Law enforcement officials reported trees blown WAUKESHA COUNTY 2.0 NE LANNON [4: The public reported trees blown down by thun	07/14/10 23:30 CST 07/14/10 23:30 CST n down by thunderstorm wind gu 43.40, -88.28] 07/14/10 23:40 CST 07/14/10 23:40 CST n down by thunderstorm wind gu 3.17, -88.14] 07/14/10 23:55 CST 07/14/10 23:55 CST derstorm wind gusts estimated u 43.35, -87.97] 07/15/10 00:00 CST 07/15/10 00:00 CST	sts estimated up to	0 0 52 knots (60 mph 0 0 0 52 knots (60 mph 0 0 52 knots (60 mph 0 0 0 nph).	Thunderstorm Wind (EG 52 kt) Source: Law Enforcement Thunderstorm Wind (EG 52 kt) Source: Public Thunderstorm Wind (EG 52 kt) Source: Law Enforcement
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Law enforcement officials reported trees blown WASHINGTON COUNTY 5.0 N SLINGER [Law enforcement officials reported trees blown WAUKESHA COUNTY 2.0 NE LANNON [4: The public reported trees blown down by thun DZAUKEE COUNTY 3.0 SW SAUKVILLE [Law enforcement officials reported trees blown MILWAUKEE COUNTY 8.0 N MILWAUKEE	07/14/10 23:30 CST 07/14/10 23:30 CST in down by thunderstorm wind gu 43.40, -88.28] 07/14/10 23:40 CST 07/14/10 23:40 CST in down by thunderstorm wind gu 3.17, -88.14] 07/14/10 23:55 CST 07/14/10 23:55 CST derstorm wind gusts estimated u 43.35, -87.97] 07/15/10 00:00 CST 07/15/10 00:00 CST in down by thunderstorm wind gu	sts estimated up to p to 52 knots (60 r	0 0 52 knots (60 mph 0 0 52 knots (60 mph 0 52 knots (60 mph 0 0 0 nph).	Source: Law Enforcement Thunderstorm Wind (EG 52 kt) Source: Law Enforcement Thunderstorm Wind (EG 52 kt) Source: Public Thunderstorm Wind (EG 52 kt) Source: Law Enforcement

WAUKESHA COUNTY --- 1.5 NE ELM GROVE [43.06, -88.06], 1.7 ESE PEWAUKEE [43.07, -88.24], 2.1 ENE BETHESDA [42.99, -88.24], 1.1 ESE

07/15/10 00:45 CST

07/15/10 03:30 CST

PROSPECT [42.95, -88.13], 3.5 ENE NEW BERLIN [43.00, -88.05]

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Flash Flood (due to Heavy Rain)

Source: Law Enforcement

5K

0

Location Date/Time Deaths & Property & Event Type and Details

Injuries Crop Dmg

Heavy rain from strong to severe thunderstorms that moved across the region produced flash flooding from 3 to 4-inch rainfall that fell in only a couple of hours. All of the I-94 ramps in Brookfield were closed for a time due to high water. Water covered Sunset Drive at a railroad intersection about 1 mile southwest of Waukesha. Trained spotters reported 2 feet of water flowing through the intersection of Calhoun Rd and Beloit Rd., as well as Overland Trail near Brookfield Rd. in New Berlin

COLUMBIA COUNTY --- 2.0 NW LODI [43.34, -89.55], DEKORRA [43.47, -89.47], 2.0 NNW POYNETTE [43.43, -89.42], LODI [43.32, -89.52]

 07/15/10 01:00 CST
 60K
 Flash Flood (due to Heavy Rain)

 07/15/10 03:00 CST
 10K
 Source: Emergency Manager

The Columbia County Emergency Manager reported gravel shoulder wash-outs on several roads and one to two feet of water on low-lying roads from heavy rains as strong to severe thunderstorms crossed the region. Minor crop damage was also noted.

A continuous feed of moisture, in a low to mid-level warm air advection regime, impinged along an outflow boundary draped across southern Wisconsin. This set-up fueled thunderstorms that developed, and redeveloped, along the boundary from the evening of July 14th into the early morning hours of July 15th. Flash flooding occurred in the hills of the Wisconsin River Valley, and in the urban areas of Waukesha and Milwaukee counties, where more than 4 inches of rain fell from the evening into the overnight hours.

KENOSHA COUNTY --- KENOSHA AIRPORT [42.60, -87.93]

07/15/10 16:59 CST 0 Thunderstorm Wind (MG 50 kt)

07/15/10 16:59 CST 0 Source: ASOS

KENOSHA COUNTY --- 0.5 SSE KENOSHA AIRPORT [42.59, -87.93], 2.6 WNW DOWNTOWN KENOSHA [42.60, -87.88]

 07/15/10 17:10 CST
 50K
 Thunderstorm Wind (EG 52 kt)

 07/15/10 17:15 CST
 0
 Source: Trained Spotter

A severe thunderstorm moved east from near Kenosha Airport, where a small plane was damaged, across western and southern portions of the city of Kenosha. Sporadic damage was reported as the damaging thunderstorm wind gusts fanned out along and either side of a line from the airport to near the intersection of 56th Avenue and 42nd Street. Power poles were snapped and a transformer exploded knocking out power to about 5000 customers. Ten to twelve-inch tree limbs were broken and trees were felled by the powerful winds. A portion of the roof of the Oemmcco building was blown off.

A cold front, trailing from low pressure to the north of Wisconsin, was draped across far Southeast Wisconsin around midday on July 15th. A thunderstorm rapidly developed along the front in western Kenosha County, and became severe as it swept across eastern sections of the county before moving out over Lake Michigan.

RACINE COUNTY --- 1.6 ESE BROWNS LAKE [42.66, -88.20], 1.1 E DOWNTOWN RACINE [42.72, -87.78]

07/18/10 10:00 CST 25K Thunderstorm Wind (EG 52 kt)

07/18/10 10:40 CST 1 0 Source: Newspaper

A thunderstorm developed southeast of Burlington and rapidly strengthened as it moved east-northeast across the city of Racine. Numerous trees and power lines were blown down by the thunderstorm wind gusts, mainly on the west side of the city. About 1,000 WE electric customers were without power at the height of the storm. A spectator at the Racine Triathlon at the lakefront sustained a minor injury when struck by a tent that blew over in the winds.

SHEBOYGAN COUNTY --- 0.8 N HOWARDS GROVE [43.84, -87.82], 0.7 SSW HAVEN [43.84, -87.76]

07/18/10 14:21 CST 5K Tornado (EF0, L: 3.31 mi , W: 50 yd)

07/18/10 14:28 CST 0 Source: NWS Storm Survey

A rapidly developing thunderstorm produced an EF0 tornado that began about 0.6 miles north-northwest of the town of Howards Grove, on Tyler Road, just north of Roosevelt Road and west of STH 42, and ended 0.5 miles south-southwest of the town of Haven, about 0.5 miles north-northeast of the intersection of Rowe Road and Dairyland Drive. The tornado snapped tree branches at sporadic locations along the path, which averaged 25 yards in width with a maximum width of 50 yards, and overturned and damaged an SUV and an attached trailer on I-43. The EF0 wind speed was estimated at 75-80 mph based on DI 27(TH), DOD2. The exact start location is Lat 43.841972 and Lon -87.822667. The exact end location is Lat 43.84111 and Lon -87.75621.

A surface low pressure and associated cold front moved across southern Wisconsin triggering isolated thunderstorms during the morning and afternoon on July 18th. There was sufficient wind shear for one of the storms to produce a tornado in Sheboygan County...with a severe thunderstorm in Racine County producing 60 mph wind gusts that damaged trees and dropped power lines in the city of Racine. Ten trees were felled in Holy Cross cemetary that damaged many headstones.

SAUK COUNTY --- HILLPT [43.42, -90.12], LIMERIDGE [43.47, -90.15], 3.0 SW REEDSBURG [43.50, -90.04], 2.0 W ROCK SPGS [43.48, -89.96]

07/19/10 21:00 CST 0 Source: Law Enforcement

Slow-moving thunderstorms produced 3 inches of rain in a short amount of time. Several roads were closed, including Herritz Road at CTH F and CTH S at Narrows Valley Road due to high water making the roads impassable.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	rstorms produced 3 inches of rain in less the		hilly terrain in ce	ntral Sauk County. Roads
WI-Z056) SAUK				
	07/19/10 23:00 CST		0	Dense Fog
	07/20/10 04:00 CST		0	
	nt winds and abundant near-ground moistung during the late night hours of July 19th and less.	•	•	• .
DANE COUNTY 1.6 NW DANE	[43.27, -89.52], 1.0 NNE DANE [43.26, -89.49	9]		
	07/22/10 15:08 CST		1K	Tornado (EF1, L: 1.53 mi , W: 30 yd)
	07/22/10 15:10 CST		0.10K	Source: Public
The tornado caused minor crop da which averaged 20 yards in width. 89.52248. The exact end location		pped large branch	nes, as well as bro	ought a power line down along the path,
DODGE COUNTY NEOSHO [43	· ·		•	5 10 1
	07/22/10 15:09 CST		0	Funnel Cloud
	07/22/10 15:09 CST		0	Source: Law Enforcement
DANE COUNTY 2.9 N YORK C	ENTER [43.27, -89.07], 4.1 NE YORK CENTE	ER [43.27, -89.01]		
	07/22/10 15:24 CST		0	Tornado (EF0, L: 3.00 mi , W: 30 yd)
	07/22/10 15:30 CST		1K	Source: NWS Storm Survey
along the path, which averaged 20	ri-County Road. Sporadic damage to tree lim 0 yards. The EF-rating was based on DI 27 (T d Lon -89.068583. The exact end location is L :LL [43.33, -88.86] 07/22/10 15:35 CST	H), DOD2 which s	suggests maximu	m winds were around 65 mph. The exact
DANE COUNTY 1.0 E STOUGH				
	07/22/10 15:46 CST		0	Funnel Cloud
	07/22/10 15:46 CST		0	Source: Law Enforcement
MILWAUKEE COUNTY 4.0 W E	BROWN DEER [43.17, -88.051			
	07/22/10 16:06 CST		0	Thunderstorm Wind (MG 53 kt)
	07/22/10 16:06 CST		0	Source: Trained Spotter
A trained spotter measured a thun about 6 inches in diameter.	derstorm wind gust at 61 mph (53 knots) 4 m	iles west of Browr	n Deer. The wind	gusts snapped small trees, with trunks
JEFFERSON COUNTY 3.5 SSV	V WATERLOO [43.14, -89.01], 2.1 NW HOOF	PERS [43.12, -88.9	0]	
	07/22/10 16:10 CST		0	Tornado (EF0, L: 5.74 mi , W: 30 yd)
	07/22/10 16:18 CST		0	Source: NWS Storm Survey
moved east-southeast before dissi an intermittent path, which average	niles southwest of Waterloo on Veith Road, a ipating just east of STH 89, about 2 miles nor ed 20 yards in width. No structural damage wn. The exact start location is Lat 43.135917 a	th of the interchar	nge of STH 89 and -rating was based	d I-94. Damage was mostly to trees along I on DI 27 (TH) DOD2 which suggests
SHEBOYGAN COUNTY 0.5 WS	SW PLYMOUTH [43.75, -87.991			
	07/22/10 16·10 CST		10K	Lightning

07/22/10 16:10 CST

07/22/10 16:10 CST

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Source: Newspaper

Lightning

10K

0

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
a lightning strike to a power pole near Ply was off to these customers for around 45	•	•		power to about 500 customers. Power
JEFFERSON COUNTY 3.0 S WATERL	OO [43.14, -88.98]			
	07/22/10 16:16 CST		0	Funnel Cloud
	07/22/10 16:16 CST		0	Source: Trained Spotter
JEFFERSON COUNTY 1.9 SE FARMIN	IGTON [43.06, -88.65]			
	07/22/10 16:35 CST		0	Tornado (EF0, L: 0.10 mi , W: 30 yd)
	07/22/10 16:36 CST		0	Source: Trained Spotter
A trained spotter saw a brief tornado in a sobserved a swirling, wispy, water-like sprarating of EF0 with a maximum wind speed	ay. Little movement was noted by the	spotter before the	tornado dissipated	•
DANE COUNTY 1.3 NNE HANERVILLE		42.88, -89.08]		
	07/22/10 17:02 CST		20K	Tornado (EF1, L: 4.18 mi , W: 75 yd)
	07/22/10 17:10 CST		6K	Source: NWS Storm Survey
trees, broke large branches, damaged a bestimated wind speed of 90 mph was base 42.87732 and Lon 89.08052. WAUKESHA COUNTY 2.0 N DOWNTO	ed on DI 27(TH) DOD3. The exact sta	-	-	•
	07/22/10 17:13 CST		0	Thunderstorm Wind (MG 59 kt)
	07/22/10 17:13 CST		0	Source: Amateur Radio
JEFFERSON COUNTY 2.4 SSE LAKE		ESE LAKE KOSHK	-	
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at al. 2.84620 and Lon -88.91638. The exa	KOSHKONONG [42.85, -88.92], 3.9 E 07/22/10 17:22 CST 07/22/10 17:32 CST section of STH 26 and Rock-Jefferson 5 mile path that averaged 40 yards in nd Grogan Rd. The EF0 estimated wi act end location is Lat 42.85381 and L	n County Line Rd., width. The tornad inds of 75-80 mph	CONONG [42.85, -8 0 0 about 6.6 miles so lo dissipated about	R8.86] Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado t 5.3 miles south of Fort Atkinson, just
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at Lat 42.84620 and Lon -88.91638. The exa	KOSHKONONG [42.85, -88.92], 3.9 E 07/22/10 17:22 CST 07/22/10 17:32 CST section of STH 26 and Rock-Jeffersor 5 mile path that averaged 40 yards in nd Grogan Rd. The EF0 estimated wi act end location is Lat 42.85381 and L	n County Line Rd., width. The tornad inds of 75-80 mph	CONONG [42.85, -6 0 0 about 6.6 miles so lo dissipated about were based on DI	Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado tt 5.3 miles south of Fort Atkinson, just 27(TH) DOD2. The exact start location is
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at Lat 42.84620 and Lon -88.91638. The exa	KOSHKONONG [42.85, -88.92], 3.9 E 07/22/10 17:22 CST 07/22/10 17:32 CST section of STH 26 and Rock-Jefferson 5 mile path that averaged 40 yards in nd Grogan Rd. The EF0 estimated wi act end location is Lat 42.85381 and L	n County Line Rd., width. The tornad inds of 75-80 mph	CONONG [42.85, -8 0 0 about 6.6 miles so lo dissipated about	R8.86] Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado t 5.3 miles south of Fort Atkinson, just
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at Lat 42.84620 and Lon -88.91638. The exaMILWAUKEE COUNTY 0.2 NE WEST I	## WILWAUKEE [43.02, -87.95] 07/22/10 17:30 CST ## WILWAUKEE [43.02, -87.95] 07/22/10 17:30 CST	n County Line Rd., n width. The tornad inds of 75-80 mph Lon -88.86265.	CONONG [42.85, -6 0 0 about 6.6 miles so lo dissipated about were based on DI	Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado tt 5.3 miles south of Fort Atkinson, just 27(TH) DOD2. The exact start location is Lightning Source: Newspaper
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at Lat 42.84620 and Lon -88.91638. The exaMILWAUKEE COUNTY 0.2 NE WEST I	KOSHKONONG [42.85, -88.92], 3.9 E 07/22/10 17:22 CST 07/22/10 17:32 CST section of STH 26 and Rock-Jefferson 5 mile path that averaged 40 yards in and Grogan Rd. The EF0 estimated with act end location is Lat 42.85381 and L WILWAUKEE [43.02, -87.95] 07/22/10 17:30 CST 07/22/10 17:30 CST d, attempting to run home from a nearment of their injuries.	n County Line Rd., n width. The tornad inds of 75-80 mph Lon -88.86265.	CONONG [42.85, -6 0 0 about 6.6 miles so lo dissipated about were based on DI 0 0 0, were injured whe	Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado tt 5.3 miles south of Fort Atkinson, just 27(TH) DOD2. The exact start location is Lightning Source: Newspaper en struck by lightning. They were taken
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at Lat 42.84620 and Lon -88.91638. The exaMILWAUKEE COUNTY 0.2 NE WEST I	## CONTROL OF THE PROPERTY OF	n County Line Rd., n width. The tornad inds of 75-80 mph Lon -88.86265.	CONONG [42.85, -8 0 0 about 6.6 miles so lo dissipated about were based on DI 0 0 0, were injured when 0	S88.86] Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado t 5.3 miles south of Fort Atkinson, just 27(TH) DOD2. The exact start location is Lightning Source: Newspaper en struck by lightning. They were taken
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at 42.84620 and Lon -88.91638. The exaMILWAUKEE COUNTY 0.2 NE WEST I	KOSHKONONG [42.85, -88.92], 3.9 E 07/22/10 17:22 CST 07/22/10 17:32 CST section of STH 26 and Rock-Jefferson 5 mile path that averaged 40 yards in and Grogan Rd. The EF0 estimated with act end location is Lat 42.85381 and L WILWAUKEE [43.02, -87.95] 07/22/10 17:30 CST 07/22/10 17:30 CST d, attempting to run home from a nearment of their injuries.	n County Line Rd., n width. The tornad inds of 75-80 mph Lon -88.86265.	CONONG [42.85, -6 0 0 about 6.6 miles so lo dissipated about were based on DI 0 0 0, were injured whe	Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado tt 5.3 miles south of Fort Atkinson, just 27(TH) DOD2. The exact start location is Lightning Source: Newspaper en struck by lightning. They were taken
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at Lat 42.84620 and Lon -88.91638. The examiluated the country 0.2 NE WEST I	## CENTER [42.81, -88.46] 07/22/10 17:31 CST 07/22/10 17:32 CST 07/22/10 17:32 CST ## Section of STH 26 and Rock-Jeffersor 5 mile path that averaged 40 yards in 10 drogan Rd. The EF0 estimated with act end location is Lat 42.85381 and Left Effective for 10 drogan Rd. ### CENTER [43.02, -87.95] 07/22/10 17:30 CST dr., attempting to run home from a nearment of their injuries. ###################################	n County Line Rd., n width. The tornad inds of 75-80 mph Lon -88.86265.	CONONG [42.85, -8 0 0 about 6.6 miles so lo dissipated about were based on DI 0 0 0, were injured when 0	S8.86] Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado t 5.3 miles south of Fort Atkinson, just 27(TH) DOD2. The exact start location is Lightning Source: Newspaper en struck by lightning. They were taken Funnel Cloud Source: Fire Department/Rescue
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at Lat 42.84620 and Lon -88.91638. The examiluated the country 0.2 NE WEST I	## CENTER [42.81, -88.46] 07/22/10 17:31 CST 07/22/10 17:32 CST 07/22/10 17:32 CST ## Section of STH 26 and Rock-Jeffersor 5 mile path that averaged 40 yards in 10 drogan Rd. The EF0 estimated with act end location is Lat 42.85381 and Left Effective for 10 drogan Rd. ### CENTER [43.02, -87.95] 07/22/10 17:30 CST dr., attempting to run home from a nearment of their injuries. ###################################	n County Line Rd., n width. The tornad inds of 75-80 mph Lon -88.86265.	CONONG [42.85, -8 0 0 about 6.6 miles so lo dissipated about were based on DI 0 0 0, were injured when 0	S88.86] Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado t 5.3 miles south of Fort Atkinson, just 27(TH) DOD2. The exact start location is Lightning Source: Newspaper en struck by lightning. They were taken
JEFFERSON COUNTY 2.4 SSE LAKE An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at Lat 42.84620 and Lon -88.91638. The examilum Auker County 0.2 NE WEST IT Two sisters, 25 years old and 30 years old to a nearby hospital and admitted for treat WALWORTH COUNTY 0.8 SSE TROY WAUKESHA COUNTY 2.0 SSE EAGLE	## CENTER [42.85, -88.46] 07/22/10 17:31 CST ## CENTER [42.85, -88.46] 07/22/10 17:31 CST ## CENTER [42.81, -88.46] 07/22/10 17:31 CST	n County Line Rd., n width. The tornad inds of 75-80 mph Lon -88.86265.	CONONG [42.85, -6 0 0 0 about 6.6 miles so lo dissipated about were based on DI 0 0 0 0, were injured when 0 0 0	S8.86] Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado t 5.3 miles south of Fort Atkinson, just 27(TH) DOD2. The exact start location is Lightning Source: Newspaper en struck by lightning. They were taken Funnel Cloud Source: Fire Department/Rescue
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at Lat 42.84620 and Lon -88.91638. The exaMILWAUKEE COUNTY 0.2 NE WEST IT Two sisters, 25 years old and 30 years old to a nearby hospital and admitted for treat WALWORTH COUNTY 0.8 SSE TROY	KOSHKONONG [42.85, -88.92], 3.9 E 07/22/10 17:22 CST 07/22/10 17:32 CST 8ection of STH 26 and Rock-Jeffersor 5 mile path that averaged 40 yards in and Grogan Rd. The EF0 estimated with act end location is Lat 42.85381 and L MILWAUKEE [43.02, -87.95] 07/22/10 17:30 CST 07/22/10 17:30 CST 07/22/10 17:31 CST 07/22/10 17:31 CST 07/22/10 17:31 CST 07/22/10 17:35 CST 07/22/10 17:35 CST 07/22/10 17:35 CST 07/22/10 17:35 CST	n County Line Rd., n width. The tornad inds of 75-80 mph on -88.86265.	CONONG [42.85, -6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R8.86] Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado t 5.3 miles south of Fort Atkinson, just 27(TH) DOD2. The exact start location is Lightning Source: Newspaper en struck by lightning. They were taken Funnel Cloud Source: Fire Department/Rescue
An EF0 tornado developed near the inters damaged tree limbs along the roughly 2.7 south of the intersection of Poeppel Rd. at Lat 42.84620 and Lon -88.91638. The exaMILWAUKEE COUNTY 0.2 NE WEST I	KOSHKONONG [42.85, -88.92], 3.9 E 07/22/10 17:22 CST 07/22/10 17:32 CST 8ection of STH 26 and Rock-Jeffersor 5 mile path that averaged 40 yards in and Grogan Rd. The EF0 estimated with act end location is Lat 42.85381 and L MILWAUKEE [43.02, -87.95] 07/22/10 17:30 CST 07/22/10 17:30 CST 07/22/10 17:31 CST 07/22/10 17:31 CST 07/22/10 17:31 CST 07/22/10 17:35 CST 07/22/10 17:35 CST 07/22/10 17:35 CST 07/22/10 17:35 CST	n County Line Rd., n width. The tornad inds of 75-80 mph on -88.86265.	CONONG [42.85, -6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	R8.86] Tornado (EF0, L: 2.77 mi , W: 75 yd) Source: Trained Spotter buthwest of Fort Atkinson. The tornado t 5.3 miles south of Fort Atkinson, just 27(TH) DOD2. The exact start location is Lightning Source: Newspaper en struck by lightning. They were taken Funnel Cloud Source: Fire Department/Rescue

limited to large tree branches along the path, which averaged 45 yards. The EF0 estimated wind speed of 65 to 70 mph was based on DI 27(TH) DOD2. The

exact start location is Lat 42.85819 and Lon -88.80070. The exact end location is Lat 42.85497 and Lon -88.72386.

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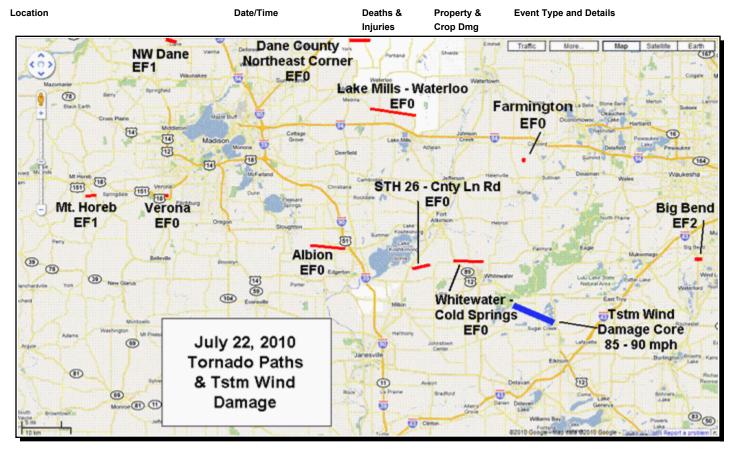
Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
DANE COUNTY 1.7 S MT HOR	EB [42.98, -89.73], 2.0 SE MT HOREB [42.98	389.701		
	07/22/10 17:52 CST	,	5K	Tornado (EF1, L: 1.46 mi , W: 75 yd)
	07/22/10 17:55 CST		0	Source: NWS Storm Survey
ornado caused minor home dama averaged 50 yards in width. The to and Malone Rd. The EF1 estimate	2 miles south of Mt. Horeb, just east of CTH or age, knocked trees down and broke tree limbs brhado ended about 2.5 miles southeast of Med wind speeds of 95 to 100 mph were based is Lat 42.97961 and Lon -89.70055.	s, uplifted patio pa t. Horeb, just east	vers, and tumbled of STH 92, about	a farm wagon along a 1.5 mile path that 1 mile north of the intersection of STH 92
WAUKESHA COUNTY 1.1 S BI	G BEND [42.86, -88.20], 1.4 SE BIG BEND [4	42.87, -88.18]		
	07/22/10 18:02 CST		75K	Tornado (EF2, L: 1.00 mi , W: 100 yd)
	07/22/10 18:05 CST		3K	Source: NWS Storm Survey
ANE COUNTY 0.2 SW VEROI	NA ARPT [42.98, -89.52], 0.1 E VERONA AR 07/22/10 18:10 CST	PT [42.98, -89.52]	0	Tornado (EF0, L: 0.22 mi , W: 30 yd)
	07/22/10 18:11 CST		0	Source: NWS Storm Survey
ninor tree limb damage around W nded just northeast of the interse ODD1. The exact start location is MILWAUKEE COUNTY 1.0 ESE	out 1 mile southeast of Verona, just southeast halen Rd., but no structural damage was not ection of Whalen Rd. and Gatsby Glenn Dr. Tl Lat 42.97827 and Lon -89.52267. The exact of EOAKWOOD [42.84, -87.91], 1.0 WSW RAW 07/22/10 18:55 CST 07/22/10 18:57 CST	ed. The short 0.22 he EF0 estimated end location is Lat SON [42.85, -87.9	emile path average wind speeds of 65 42.98007 and Lor 0] 2K 0	ed about 15 yards in width. The tornado to 70 mph were based on DI 27(TH) in -89.51900. Thunderstorm Wind (EG 65 kt) Source: Trained Spotter
	eral large trees sustained damage to large lim	•		
GREEN COUNTY 1.1 SSW MO			15V	Lightning
	07/22/10 19:30 CST		15K	Lightning
	07/22/10 19:30 CST		0	Source: Broadcast Media
A lightning strike to a tree killed 8 and \$16,000.	cows that had gathered under the tree seekir	ng shelter from a t	nunderstorm. The v	value of the cows was between \$12,000
WALWORTH COUNTY WHITE	WATER [42.83, -88.73]			
	07/22/10 19:32 CST		0	Thunderstorm Wind (EG 52 kt)
	07/22/10 10:40 CST		•	Source: Trained Spotter

WALWORTH COUNTY WHITEWATER [42.83, -88.73]						
	07/22/10 19:32 CST	0	Thunderstorm Wind (EG 52 kt)			
	07/22/10 19:40 CST	0	Source: Trained Spotter			

A trained spotter estimated thunderstorm wind gusts up to 52 knots (60 mph) that lasted for eight minutes.

A stalled frontal boundary combined with a moist and unstable atmosphere and strong wind shear to produce numerous tornadoes and funnel clouds over South Central and Southeast Wisconsin. A series of vorticity maxima moving west to east through the western Great Lakes enhanced isentropic lift, as a strengthening southerly low-level jet interacted with a nearly stationary west to east warm front.

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This map shows the location, EF rating and the path length of each of the 10 tornadoes that occurred in the late afternoon and evening hours of July 22nd. In addition, the core of the damage path caused by thunderstorm wind gusts of 85 to 90 mph in Walworth County between Whitewater Lake and Sugar Creek is also shown.

COLUMBIA COUNTY --- 3.5 WSW PORTAGE ARPT [43.55, -89.54], 3.4 ESE FRIESLAND [43.56, -89.01], 3.6 S COLUMBUS [43.28, -89.03], 3.1 SSW OKEE [43.31, -89.60]

 07/22/10 16:00 CST
 0.10M
 Flash Flood (due to Heavy Rain)

 07/22/10 19:00 CST
 10K
 Source: Law Enforcement

Law enforcement officials reported numerous road closures and culverts damaged due to deep and rushing water over roads from near Portage to Randolph, and south to the Dane County border. Included in these reports was damage to culvert supports in the Harmony Grove subdivision and damage to roads shoulders and driveways along Cactus Acres Road in Lodi; knee-high water covering Henry Drive in Portage. Storm total rainfall reports include 3.68 inches in Lodi; 3.58 inches in Arlington; and 2.58 inches near the Wisconsin Dells, with much of the rain falling within one to two hours of time.

DANE COUNTY --- 0.8 N STONE [42.88, -89.30], 4.2 NNE PRIMROSE [42.95, -89.63], 4.0 E ROXBURY [43.26, -89.59], 1.6 NW YORK CENTER [43.25, -89.09]

 07/22/10 16:00 CST
 0.10M
 Flash Flood (due to Heavy Rain)

 07/22/10 20:00 CST
 10K
 Source: Trained Spotter

Training thunderstorms produced 2.5 to 4.5 inches of rain in about two hours over mainly the northern half of the county. Street flooding stranded cars in Sun Prairie, various locations in the city of Madison, Oregon, Middleton and DeForest. Three to four feet of water covered the intersection of Commercial Avenue and Ckronke Road in Sun Prairie, stalling cars and filling some home basements and commercial buildings with water, that damaged contents.

DODGE COUNTY --- RANDOLPH [43.53, -89.00], 1.3 WNW PORTLAND [43.21, -88.99], 1.2 ENE ALDERLEY [43.22, -88.43], 1.3 ENE HERMAN CENTER [43.43, -88.45]

07/22/10 16:00 CST 20K Flash Flood (due to Heavy Rain)
07/22/10 19:00 CST 5K Source: Emergency Manager

Emergency managers reported numerous road closures due to flash flooding in the southern half of the county. Included in the reports were washed out shoulders along roads in the Reeseville and Lowell areas. Law enforcement officials reported street flooding at the intersection of Mill Street and Grant Street, and along Maple Avenue in Beaver Dam made the streets impassable. A trained spotter reported 1.5 to 2 feet of water over the road at the intersection of CTH DJ and CTH E about 3.5 miles southeast of Clyman. Storm total rainfall reports include 3.42 inches at Hustisford; 3.24 inches in Juneau; 2.40 inches in Beaver Dam; and 2.36 in Horicon, with much of the rain falling within one to two hours of time.

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
SHEBOYGAN COUNTY 1.6 V 87.75], 1.0 SSE KOHLER [43.72	VSW SHEBOYGAN [43.74, -87.75], 2.5 NNW K 287.771	OHLER ANDRAE	STATE PARK [43.	70, -87.72], 2.2 NE ST GEORGE [43.69,
	07/22/10 16:30 CST		20K	Flash Flood (due to Heavy Rain)
	07/22/10 19:00 CST		2K	Source: Trained Spotter
south-southwest of Sheboygan. Weeden Creek road and 10th St	of water over South Business Drive between F Another trained spotter reported street flooding treet. The flooding damaged the contents of flo	g on the south side oded basements a	of the city of Sheb and washed out gra	oygan near the intersection of vel shoulders of roads.
WASHINGTON COUNTY 0.7 SLINGER [43.36, -88.27]	SE ST KILIAN [43.54, -88.36], 1.7 E MICHAEL	S [43.52, -88.14], 1	I.9 S WEST BEND	ARPT [43.39, -88.13], 1.9 NNE
	07/22/10 16:30 CST		20K	Flash Flood (due to Heavy Rain)
	07/22/10 19:00 CST		2K	Source: Law Enforcement
due to rapidly rising lake levels f	reet just west of U.S. Highway 45 in Kewaskun rom the heavy rain. Street flooding was reporte	ed in West Bend w	th a trained spotter	r in town recording 1.77 inches of rain
due to rapidly rising lake levels f hat fell in 25 minutes. A trained more of standing water covering	,	ed in West Bend w h of West Bend re _l The floodwater dan	ith a trained spotter ported significant flon maged the contents	r in town recording 1.77 inches of rain boding on area roads and 6 inches or of flooded basements in the area. He
due to rapidly rising lake levels f hat fell in 25 minutes. A trained more of standing water covering recorded 2.03 inches of rain in a nches.	rom the heavy rain. Street flooding was reported spotter in the Barton area about 1.5 miles north the yards of residences in his neighborhood. T	ed in West Bend w h of West Bend rep The floodwater dan nclude 4.60 inches	th a trained spotter ported significant flo naged the contents in Richfield; 4.51 i	r in town recording 1.77 inches of rain pooding on area roads and 6 inches or of flooded basements in the area. He nches at Holy Hill; and Germantown 3.13
due to rapidly rising lake levels f hat fell in 25 minutes. A trained more of standing water covering recorded 2.03 inches of rain in a nches.	rom the heavy rain. Street flooding was reporter spotter in the Barton area about 1.5 miles north the yards of residences in his neighborhood. To bout 45 minutes. Storm total rainfall amounts in 5, -89.50], DE FOREST [43.25, -89.33], OREGO 07/22/10 17:00 CST	ed in West Bend w h of West Bend rep The floodwater dan nclude 4.60 inches	th a trained spotter ported significant flo maged the contents in Richfield; 4.51 i	r in town recording 1.77 inches of rain cooding on area roads and 6 inches or of flooded basements in the area. He nches at Holy Hill; and Germantown 3.13 99, -89.59] Flash Flood (due to Heavy Rain)
due to rapidly rising lake levels f hat fell in 25 minutes. A trained more of standing water covering recorded 2.03 inches of rain in a nches.	rom the heavy rain. Street flooding was reported spotter in the Barton area about 1.5 miles north the yards of residences in his neighborhood. To bout 45 minutes. Storm total rainfall amounts in 5, -89.50], DE FOREST [43.25, -89.33], OREGO	ed in West Bend w h of West Bend rep The floodwater dan nclude 4.60 inches	th a trained spotter ported significant flo naged the contents in Richfield; 4.51 i	r in town recording 1.77 inches of rain pooding on area roads and 6 inches or of flooded basements in the area. He nches at Holy Hill; and Germantown 3.13
due to rapidly rising lake levels for that fell in 25 minutes. A trained more of standing water covering recorded 2.03 inches of rain in a naches. DANE COUNTY DANE [43.25] Training thunderstorms produce Sun Prairie, various locations in	rom the heavy rain. Street flooding was reporter spotter in the Barton area about 1.5 miles north the yards of residences in his neighborhood. To bout 45 minutes. Storm total rainfall amounts in 5, -89.50], DE FOREST [43.25, -89.33], OREGO 07/22/10 17:00 CST	ed in West Bend who hof West Bend report for the floodwater dan include 4.60 inches on [42.93, -89.38], wer mainly the norte forest. Three to for	th a trained spotter corted significant flor naged the contents in Richfield; 4.51 i 2.8 SE RILEY [42.9 0.15M 10K thern half of the coro	r in town recording 1.77 inches of rain cooding on area roads and 6 inches or of flooded basements in the area. He nches at Holy Hill; and Germantown 3.13 29, -89.59] Flash Flood (due to Heavy Rain) Source: Trained Spotter unty. Street flooding stranded cars in vered the intersection of Commercial
due to rapidly rising lake levels finat fell in 25 minutes. A trained more of standing water covering recorded 2.03 inches of rain in anches. DANE COUNTY DANE [43.25] Fraining thunderstorms produce Sun Prairie, various locations in Avenue and Ckronke Road in Standard for the first feet of the standard feet of the sta	rom the heavy rain. Street flooding was reporter spotter in the Barton area about 1.5 miles north the yards of residences in his neighborhood. To bout 45 minutes. Storm total rainfall amounts in 5, -89.50], DE FOREST [43.25, -89.33], OREGO 07/22/10 17:00 CST 07/22/10 20:00 CST d 2.5 to 4.5 inches of rain in about two hours of the city of Madison, Oregon, Middleton and Design 1.5 miles about 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison, Oregon, Middleton and Design 1.5 miles are the city of Madison and Design 1.5 miles are the city of Madison are the city	ed in West Bend who of West Bend report of the floodwater daminclude 4.60 inches DN [42.93, -89.38], wer mainly the norter of the floods and correspond to the floods of t	th a trained spotter corted significant flut aged the contents in Richfield; 4.51 in Rich	r in town recording 1.77 inches of rain coding on area roads and 6 inches or of flooded basements in the area. He nches at Holy Hill; and Germantown 3.13 199, -89.59] Flash Flood (due to Heavy Rain) Source: Trained Spotter Linty. Street flooding stranded cars in vered the intersection of Commercial with water, damaging their contents.
due to rapidly rising lake levels finat fell in 25 minutes. A trained more of standing water covering recorded 2.03 inches of rain in anches. DANE COUNTY DANE [43.25] Training thunderstorms produce Sun Prairie, various locations in Avenue and Ckronke Road in Standard	rom the heavy rain. Street flooding was reporte spotter in the Barton area about 1.5 miles north the yards of residences in his neighborhood. To bout 45 minutes. Storm total rainfall amounts in 5, -89.50], DE FOREST [43.25, -89.33], OREGO 07/22/10 17:00 CST 07/22/10 20:00 CST d 2.5 to 4.5 inches of rain in about two hours of the city of Madison, Oregon, Middleton and De un Prairie, stalling cars and filling some home be	ed in West Bend who of West Bend report of the floodwater daminclude 4.60 inches DN [42.93, -89.38], wer mainly the norter of the floods and correspond to the floods of t	th a trained spotter corted significant flut aged the contents in Richfield; 4.51 in Rich	r in town recording 1.77 inches of rain coding on area roads and 6 inches or of flooded basements in the area. He nches at Holy Hill; and Germantown 3.13 199, -89.59] Flash Flood (due to Heavy Rain) Source: Trained Spotter Linty. Street flooding stranded cars in vered the intersection of Commercial with water, damaging their contents.

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Location Date/Time Deaths & Property & Event Type and Details

Injuries Crop Dmg

Thunderstorms training over the region produced flooding rains over all of Milwaukee County...causing massive flooding, shutting down streets and the freeway system at rush hour with up to 4 feet of rushing water.

There was one fatality - the body of a 19-year-old male was found in Lincoln Creek near N. 32nd St. and W. Hampton Ave. in Milwaukee. He was swept from his vehicle when Lincoln Creek flooded.

County Executive Scott Walker issued a Declaration of a Major Disaster for Milwaukee County since more than 7 inches of rain fell around the county, and an estimated \$24.1 million in damage in the private sector, and nearly \$11.6 million in public sector costs, which includes protective measures and clean-up costs.

The private sector damage costs include: \$22,396,790 dollars to residential buildings and \$1,686,752 dollars to businesses. The public sector costs include: \$2,003,010 dollars of damage to public buildings and equipment; \$2,385,760 dollars of damage to public utility systems; \$2,774,400 dollars or damage to road systems; \$310,000 dollars of damage to water control facilities and another \$1,326,100 dollars in damage to other public property for a total of \$8,799,270. In addition, another \$1,946,100 dollars were spent in debris clearance and \$894,988 dollars were spent for overtime. These costs are not directly related to the flood damage.

The Milwaukee Fire Department logged 50 rescues from homes and streets.

The Milwaukee Metropolitan Sewerage District (MMSD) reported that the storm resulted in a combined sewer overflow of around 2 billion gallons. All Lake Michigan beaches in Milwaukee were closed through the following weekend of July 24th and 25th due to sewer contamination. The City of Milwaukee received at least 2000 calls for sewer backups into basements of homes. It appeared that the northern half of the city of Milwaukee was hardest hit.

The flooding rains created a massive sink hole 20 feet deep and some 20 to 40 feet wide at the intersection of Oakland and North in the city of Milwaukee around 830 pm. It swallowed a Sport Utility Vehicle and a street light. The driver of the SUV was injured and treated at a hospital. Electrical power cables and other cable lines were damaged by the sink hole.

Milwaukee Mitchell International Airport was closed late Thursday night (July 22nd) through 2 pm Friday (July 23rd) due to flooded runways. One runway was opened at 2 pm Friday, however there were additional delays.

In Milwaukee County, over 4,400 homes reported water-filled basements in the city of Milwaukee alone.

11,764 homes received some sort of impact from the flooding, with 6 homes destroyed; 57 homes receiving major damage; 1,859 home receiving minor damage; and an additional 9,842 homes minimally affected by the flood waters. Sixty-eight businesses were affected, with 9 having major damage and 59 having minor damage.

The north side of the city received the heaviest downpours with 7 to 8 inches of rain falling in 2 to 3 hours. WTMJ-TV4 on Milwaukee's northeast side measured 6.73 inches of rain in 1 hour, between 5:15 pm and 6:15 pm. The twenty-four hour rainfall (midnight to midnight July 22nd) was 8.31 inches. They also received another inch of rain after midnight on July 23rd, so the two-day total was 9.31 inches.

The Milwaukee Fire Department logged 50 rescues from homes and streets.

Nicolet High School in the north suburban community of Glendale had a completely flooded basement and 16" of water on the main floor.

Hourly rainfall amounts of 2 to 4 inches were reported, and WTMJ TV-4 on Milwaukee's northeast side measured 7 inches of rain in about 2.5 hours ending at 745 pm Thursday evening. The one-hour rainfall was 6.73 inches between 5:15 PM and 6:15 PM CDT in the late afternoon/evening. The twenty-four hour rainfall (midnight to midnight July 22nd) was 8.31 inches, with another inch after midnight on July 23rd, so the two day total was 9.31 inches.

Mitchell Field recorded 5.61 inches for the day, breaking a record for the date. The previous record was 1.26 set in 1948. This also is the second highest daily rainfall total on record for Milwaukee. The greatest one-day precipitation record was the 6.81 inches which fell on August 6, 1986.

Direct Fatalities: M19VE

OZAUKEE COUNTY --- 1.8 SSW FIVE CORNERS [43.30, -88.02], 2.3 ESE GRAFTON [43.30, -87.91], 2.0 SW BAYSIDE [43.20, -87.91], 2.0 SSE MEQUON [43.19, -87.96]

 07/22/10 17:00 CST
 20K
 Flash Flood (due to Heavy Rain)

 07/22/10 19:00 CST
 1K
 Source: Law Enforcement

Police reported runoff from heavy rains caused a few sewer backups in homes causing damage to contents in Mequon. Police also reported water over roads in Cedarburg, draining with enough force to pop off a manhole cover near the high school. Law enforcement also closed I-43 at both Mequon Road and County Line Road, mainly due to impassable conditions due to flooding just over the county line in Milwaukee. Thiensville officials reported 2.85 inches of rain in less than 2 hours, while Mequon received 2.84 inches.

JEFFERSON COUNTY --- WATERTOWN [43.20, -88.72], 0.6 N IXONIA [43.16, -88.60], 1.9 NNE WHITEWATER [42.86, -88.72], 1.9 NNE BUSSEYVILLE [42.92, -88.97], 1.9 NNE WATERLOO [43.20, -88.97]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/10 18:00 CST		0.15M	Flash Flood (due to Heavy Rain)
	07/22/10 20:00 CST		10K	Source: Newspaper

Training thunderstorms produced 3 to 5 inches of rain in two hours or less across mainly the northern two-thirds of the county. Many roads were rendered impassable for a time due to the heavy downpours. Localized flooding of roads and some basements, with damage to contents, were reported by the county emergency manager in Waterloo, Watertown, Lake Mills, Jefferson, Ixonia and Johnson Creek. STH 19 was closed east of Watertown due to high water over the road. Some storm total rainfall reports include 5.45 inches at Palmyra; 4.97 inches in Milford; 4.70 inches at the National Weather Service office in Sullivan; and 4.59 inches in Waterloo.

RACINE COUNTY --- 1.9 E HONEY LAKE [42.73, -88.28], 1.4 SE CALDWELL [42.81, -88.25], CALEDONIA [42.80, -87.93], 0.7 SSW FRANKSVILLE [42.74, -87.92]

 07/22/10 18:00 CST
 20K
 Flash Flood (due to Heavy Rain)

 07/22/10 20:00 CST
 1K
 Source: Trained Spotter

The southern edge of a line of training thunderstorms pushed across northern portions of Racine County, producing between 3 and 4 inches of rain in two hours or less. water covering area roads made them impassable, including CTH G at I-94, with the flood waters washing out gravel shoulders. Basements flooded, causing damage to contents, including the basement of a home on Spring Street on the northwest side of the city of Racine, flooded with water from the swollen Root River.

WAUKESHA COUNTY --- 0.7 NNE MENOMONEE FALLS [43.19, -88.10], 1.6 SSW DURHAM [42.85, -88.09], 3.6 W EAGLE [42.88, -88.54], 1.6 WNW LAC LA BELLE [43.16, -88.55]

 07/22/10 18:00 CST
 2.90M
 Flash Flood (due to Heavy Rain)

 07/22/10 20:00 CST
 50K
 Source: Emergency Manager

Thunderstorms training over the region produced 4 to 7 inches of rain over Waukesha County. While many sections of the county experienced flash flooding, the north and northeast sections were hardest hit, with numerous roads flooded and basements flooded in Brookfield, Menomonee Falls and Sussex. A trained spotter reported 4 inches of rain in one hour in Menomonee Falls where the heavy rains caused a sink hole to form on Campbell Drive. Rushing water flooded roads in Delafield near U.S. Highway 18, closed STH 59 at STH 164 south of Waukesha, and covered sections of CTH Z, west of Eagle in western Waukesha County. Flooded roads were also reported in Muskego, New Berlin and Oconomowoc.

Parts of south-central and southeast Wisconsin experienced several rounds of record-setting torrential heavy rains during the afternoon and evening hours of July 22, 2010 that led to flash flooding and damage. During the afternoon, a persistent band of strong to severe thunderstorms developed and moved very slowly over south central and southeast Wisconsin through the evening hours. The individual storms were moving quite fast, about 40 to 50 mph, but the slow southward movement of the boundary these storms were developing along, resulted in storms repeatedly training, or moving, over the same area.

Widespread 3 to 4 inch amounts were reported along and either side of the I-94 corridor, with locally higher amounts of 5 to 8 inches. The greatest rain amounts fell in Milwaukee County. Mitchell Field recorded 5.61 inches for the day, breaking a record for the date. The previous record was 1.26 set in 1948. This also is the second highest daily rainfall total on record for Milwaukee. The greatest one-day precipitation record was the 6.81 inches which fell on August 6, 1986. Madison also set a record for precipitation for the date at 3.62 inches. This beat the previous mark of 2.21 inches set in 1885. The 3.62 inches of rainfall ranks 13th for the most precipitation received in one day. The record is the 4.96 inches which fell on August 8, 1906.

About 32,000 We Energy utility customers lost electrical power throughout southeast Wisconsin due to the flooding and lightning.

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